

Fig. 1

Fig. 2a

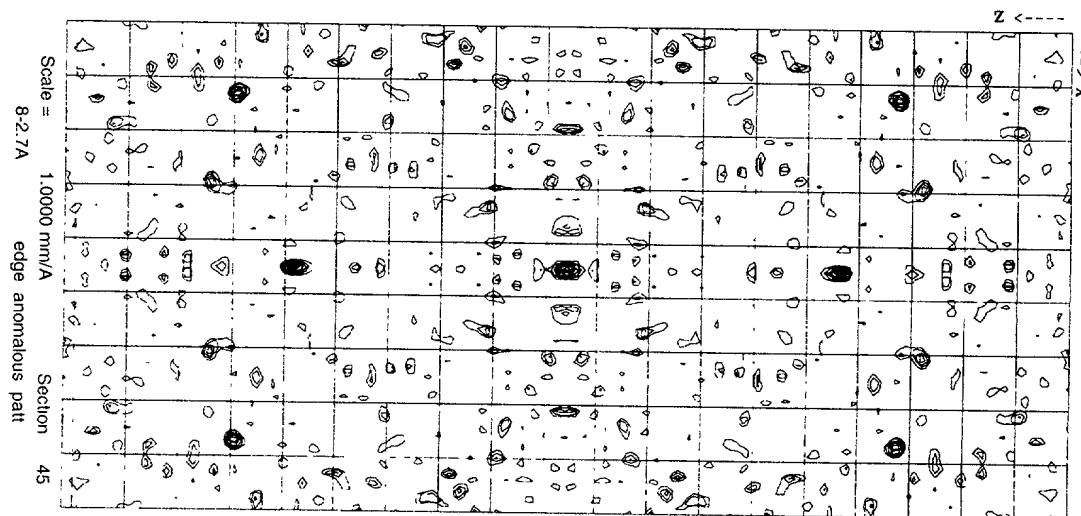
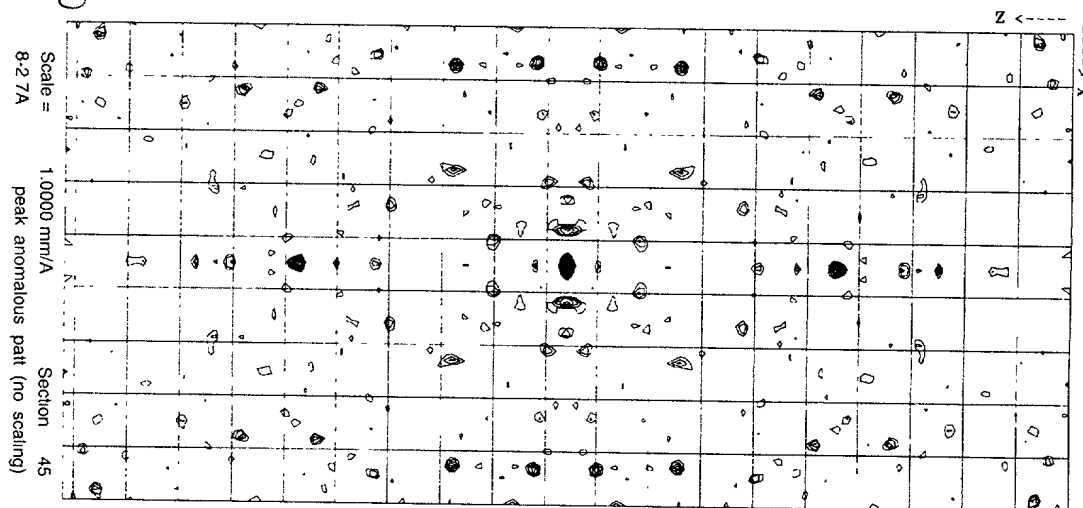


Fig. 2b



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Fig. 3a

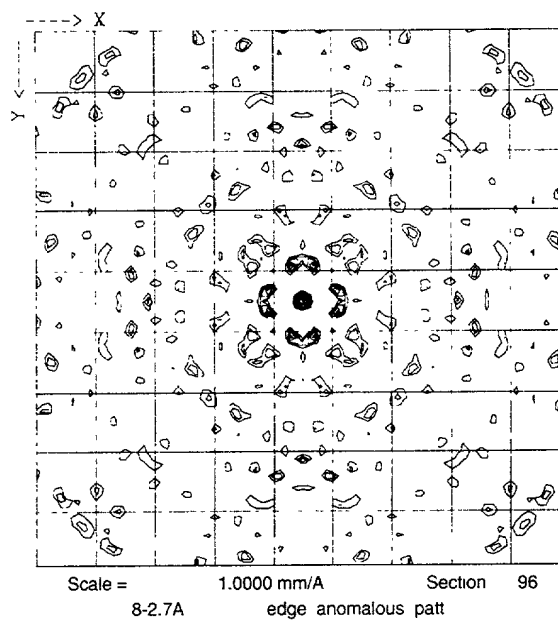
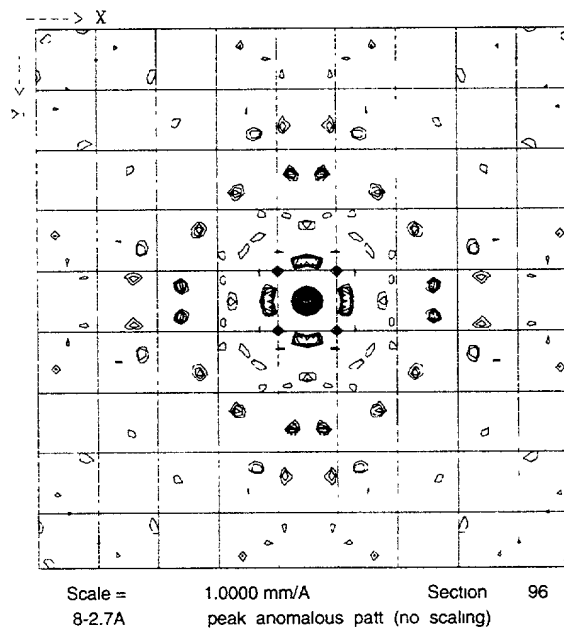
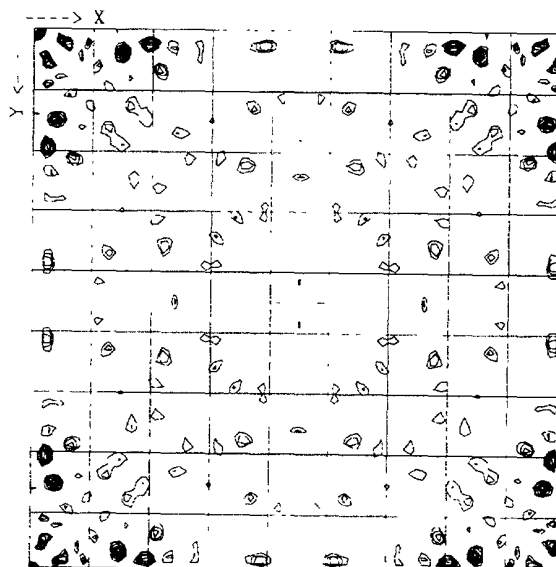
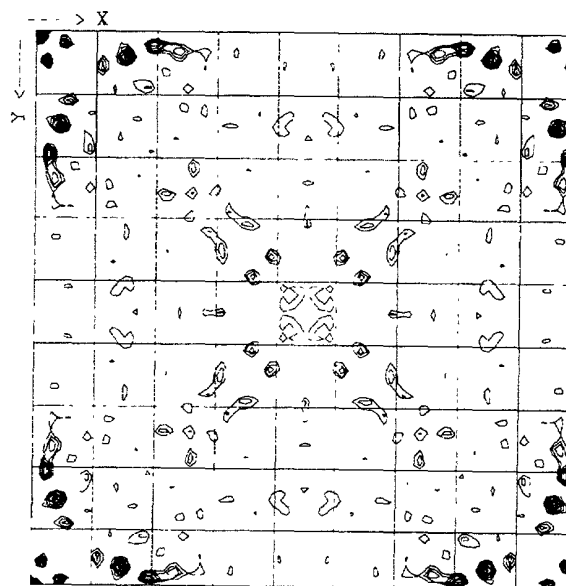


Fig. 3b



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Fig. 4



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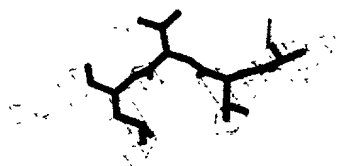


Fig. 5a

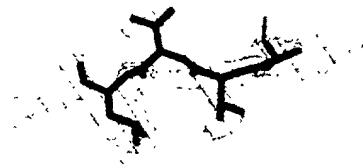


Fig. 5b

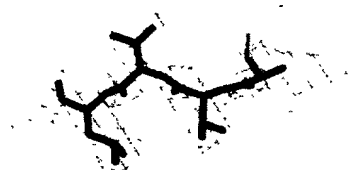


Fig. 5c



Fig. 5d

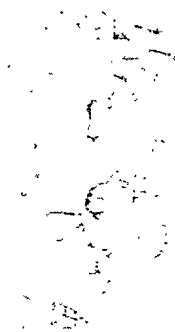


Fig. 6a

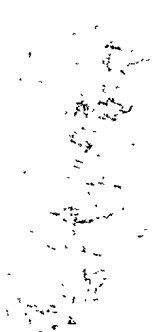


Fig. 6b

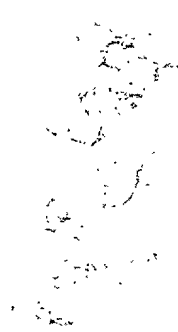


Fig. 6c

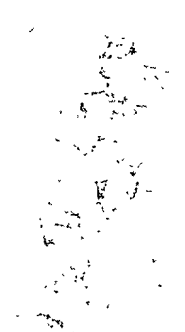


Fig. 6d

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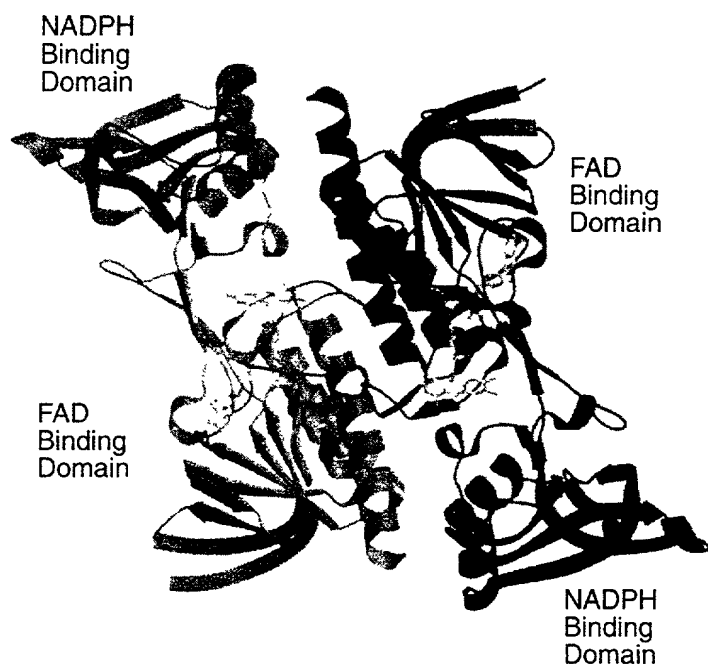


Fig. 7

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Fig. 8a

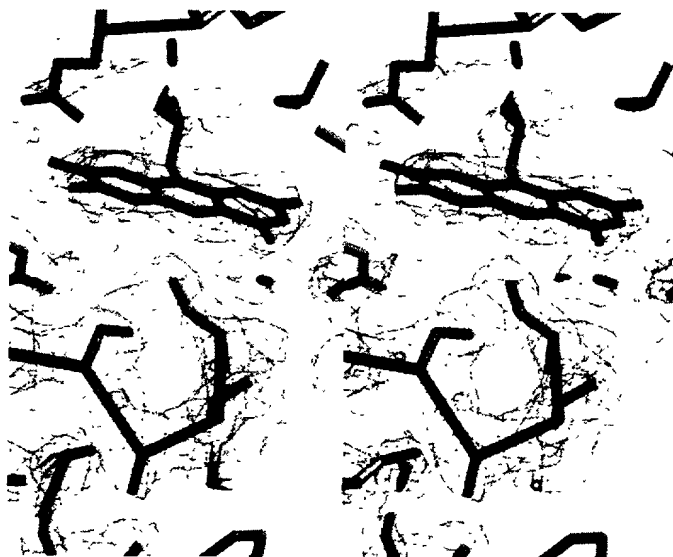
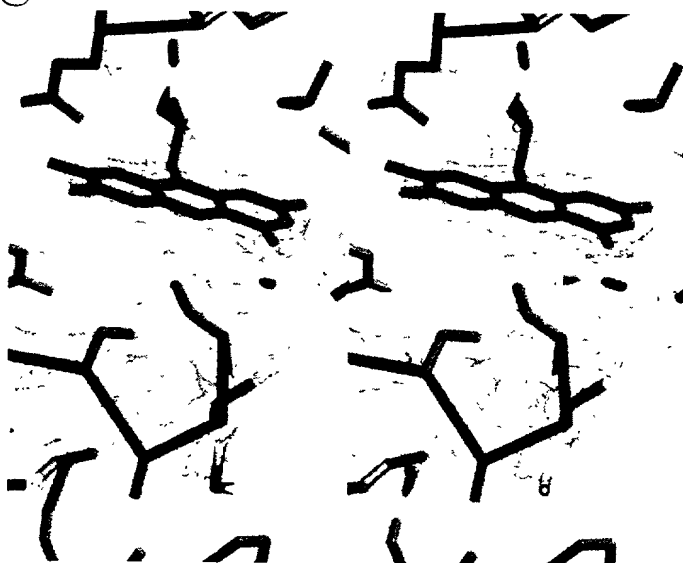


Fig. 8b



09825212.012003

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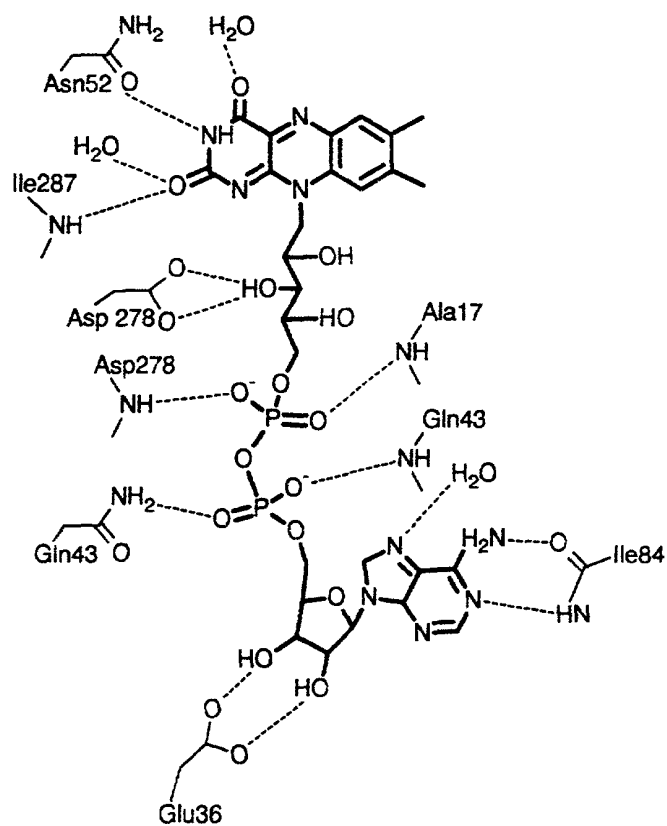


Fig. 9

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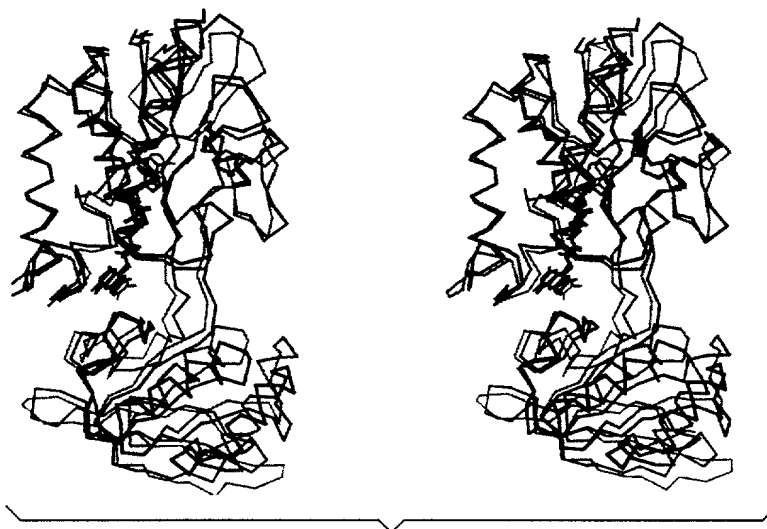


Fig. 10

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SEQ ID NO:2	TrxB_ecoli	1	-GTTKHSKLLILGSGPAGYTAAYAAARANLQPVLIITGMEKGGQLTTTTEV	50
SEQ ID NO:1	TrxB_sa	(1)	MGTEIDFDIAIIGAGPAGMTAAVYA SRANLKTVMIERGIPGGQWANTIEV	
	TrxB_ecoli	51	ENWPGDPNDLITGPILLMERMEHATKFEETIIFDHINKV DLQNRPFRLNGD	100
	TrxB_sa	(50)	ENFPFG-FEMFTGPDLS TKMFEHAKKFGAVYQYGDIKSVHDKGEYKVINFG	
	TrxB_ecoli	101	NGEYTCDA LIATGASARYLGLPSEEA FKGRGVSACATCDGFFYRNQKVA	150
	TrxB_sa	(100)	NKELTAKAV LIATGA EYKKIGVPGEQELGGRGVSYCAVCDGAF FKNRRLF	
	TrxB_ecoli	151	VIGGNTAVEEA LYLSNIASEVHLTHRRDGFRAEKILIKRLMDKVENGNII	200
	TrxB_sa	(150)	VIGGDSAVEEGT FTTKFADKVTIVHRRDELRAQRILQDRAFKN---DKI	
	TrxB_ecoli	201	ILHTNRTTEEV TG DQMGVTGVRLRDTQNSDNI ESLDVAGLFVAIGHSPNT	250
	TrxB_sa	(200)	DFIWSHT TKSIN EKDGKVGSVTLTST-KDGSEET HEADGVFIYIGMKPLT	
	TrxB_ecoli	251	AFIEGQ-L ELE NGYIKVQSGIHGNATQTSIPGVFAAGDVMDHIYRQAITS A	300
	TrxB_sa	(250)	APFKDLGITNDVG YIVTK---DD---MTTSVPGIFAAGDVRDKGLRQIVTAT	
	TrxB_ecoli	301	GTGMAALDAERY LDGLADAK-----	329
	TrxB_sa	(300)	GDGSTAAQSAAEY IEHLNDQARSHHHHH	

Fig. 11

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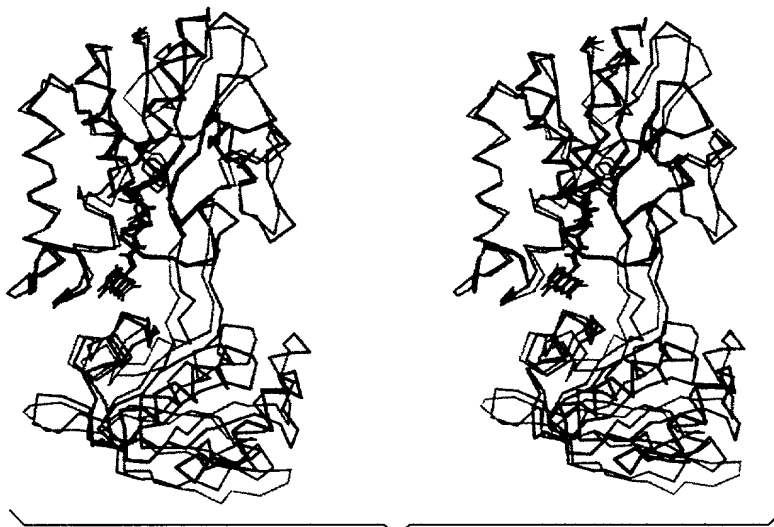


Fig. 12

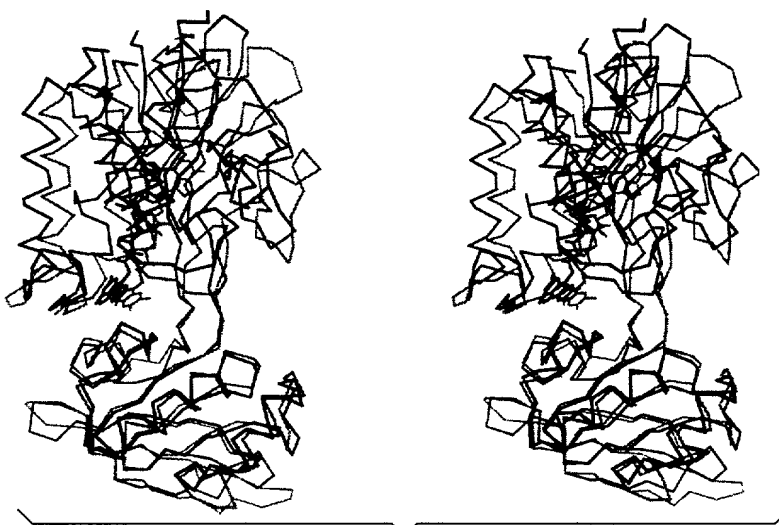


Fig. 13

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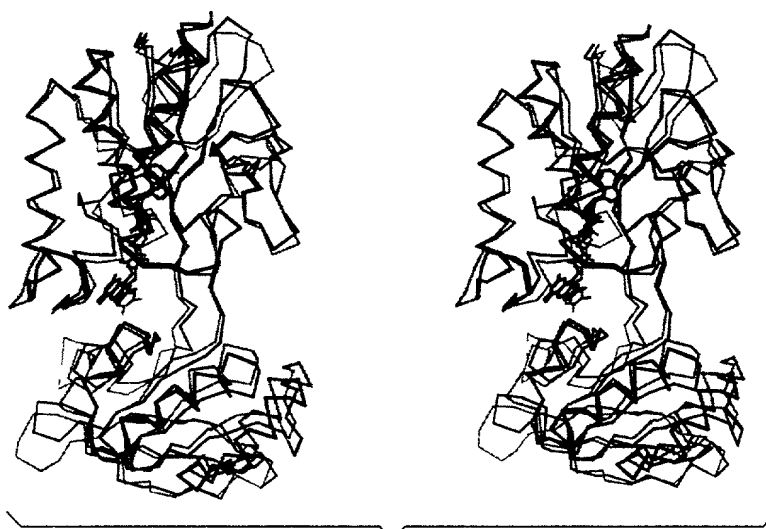


Fig. 14

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SEQ ID NO:3	Tr_athaliana	1	MNGLETHNTRLCIVGSGPAAHATAAIAARAELKPLLFEGWMANDIAPGGQ	50
SEQ ID NO:1	TrxB_sa	(1)	-MGTEID-FDIAIIGAPAGMTAAVYASRANLKTVMIERG-----IPGGQ	
	Tr_athaliana	51	TTTTTVDENFPFPEGILGVLELDKFRKQSEFPFGTTIFTETVTKVDFSSK	100
	TrxB_sa	(51)	MANTEVEVFPGF-EMITGPDLSTKNFEHAKYKFGAVYQYGDYKSYEDKGE	
	Tr_athaliana	101	PFKLTFTDSKALLADAVILAIGAVAKRLSFVSGSEVLGGFWNRGTSACAVC	150
	TrxB_sa	(101)	YKVINFGNKETAKAVIATATGAEYKKGIGVPCQEELGG-----RGVSYCAVC	
	Tr_athaliana	151	DGAAPIFRNKPLAVIGGGDSAMEEANFLTKYSSKVVIIHRRDAFRASKIM	200
	TrxB_sa	(151)	DGA--FFNKRRLFVIGGGDSAVEEGTFLTKHADKVTIIVHRRDELRAQRHIS	
	Tr_athaliana	201	QQRALSNPKIDVIWNSVVEAYGDGERD-VLGGKVKKNVVTGDSVSLKVS	250
	TrxB_sa	(201)	QDRAFKNDKIDFIWSHTLTKSIN---EKDGKVGSVTLTSTKDGSEETHEAD	
	Tr_athaliana	251	GFFFAIGHEPATK-FLDGGVELDSDGYAVTKPGTTQTTSVPGVFAAGDVQD	300
	TrxB_sa	(251)	GVFIYIGMKPLTAPFKDLGLTND-VGYRYTKDDMT-TSVPGFFAAGDVRD	
	Tr_athaliana	301	KKYRQAKTAAGTGCMAALDAEHYVLOEIGSQEGKSD----	339
	TrxB_sa	(301)	KGLRQIVTATGDSIAAQSAAEYTEHLNDQARSHHHHHH	

Fig. 15

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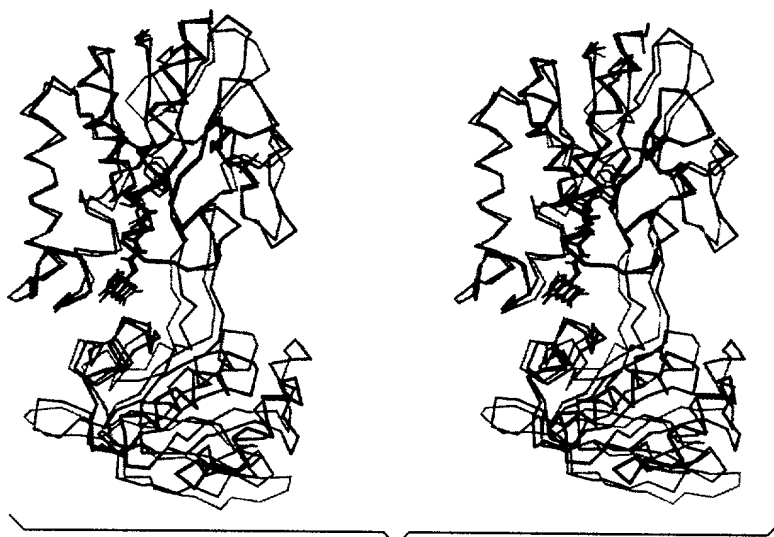


Fig. 16

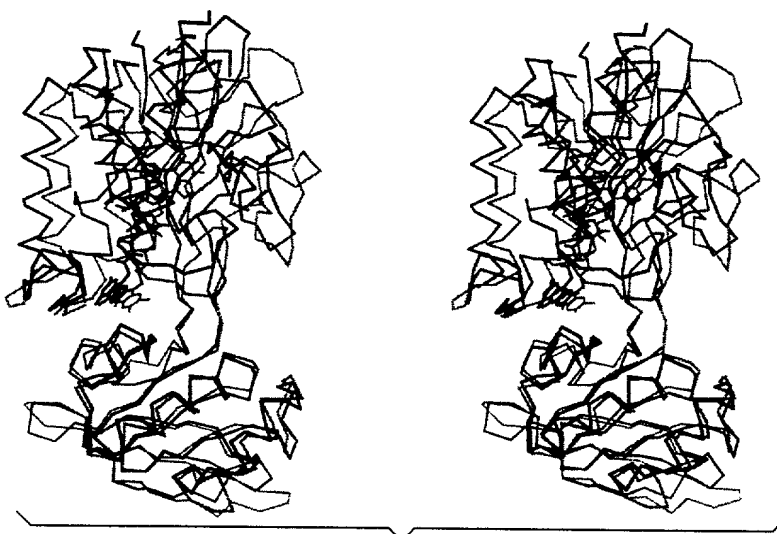
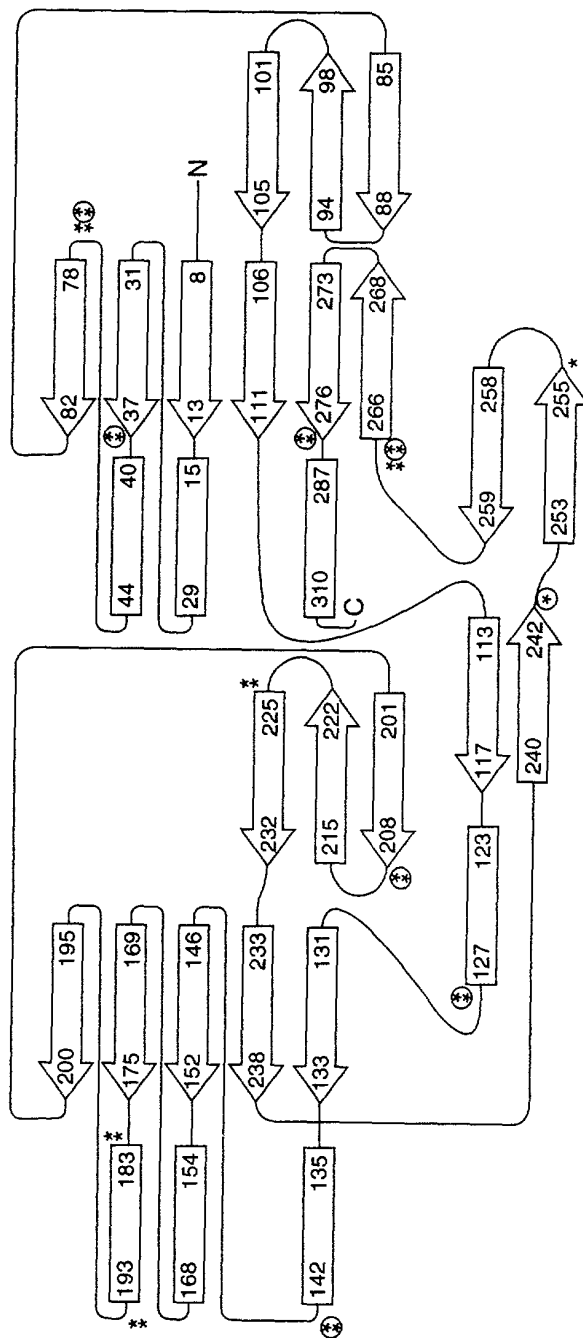


Fig. 17

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E. coli * deletion, ** insertion
A. thaliana ⊕ deletion, ⊗ insertion

Fig. 18